Confined Entry Permit Forms

Print and Complete These Forms Prior To Commencing Confined Space Work

Use 8.5 X 14 paper

Appendix A

Coordination Document

Contractor:		Entry Location:	Entry Location:				
Date(s) of Entry							
Was the entry coordinated by	Buffalo Trail Public Schools?						
	y to BTPS entry plan permit) ontractor entry plan permit)						
Responsibilities:	ECCS	Contractor:	Contractor:				
Entrant(s)							
Attendant(s)							
Monitoring Equipment							
Energy Isolation							
Ventilation Equipment							
Fall Arrest Equipment							
Personal Protective Equipment							
Other: (Please specify)							
Other: (Please specify)							
Contractor Representative:		Date: (DD/MM/Y	Date: (DD/MM/YYYY)				
Please Print:							
Signature:							
East Central Catholic Schools R	Representative	Date: (DD/MM/Y	Date: (DD/MM/YYYY)				
Please Print:							
Signature:							

Appendix B

	Hazard Assessme	nt Guide for C	onfined Spaces	
Hazard	Explanatory notes	Method of test	Effects of Hazard	Examples
Atmosphere: Explosive Atmosphere CHECK IF APPLICABLE	Before entering confined space, tests for presence of an Explosive atmosphere must be done. It should be noted that air-borne dust from grain, fine ground metals or other materials can form an explosive atmosphere. Explosive gases may displace oxygen. Note: Oxygen enrichment or deficiency can cause error in combustible gas detector readings.	Combustible gas detector - explosive gases must be monitored by equipment that can detect the lower explosives limit (L.E.L.) and upper explosive limit (U.E.L.). Residues may have to be disturbed to allow for release of explosive gases.	Explosion / burns / multiple injuries / death	1. Methane (or natural gas) CH4 - sources - gas line leaks, decaying matter. May be found adjacent to land fill sites; backed up, sluggish sewers. 2. Gasoline and other solvents - Storage tanks and adjacent areas, sewer systems proximity to pipelines, accidental spills may
Oxygen a) Deficiency CHECK IF APPLICABLE	Deficiency - Acceptable breathing air contains between 19.5%-23% oxygen Air containing less than acceptable amounts of oxygen is a hazardous atmosphere.	Oxygen detection monitor. Oxygen detection	Could result in slowing down of pulse rate, disorientation, unconsciousness, death.	have definite odour. Oxygen (02) deficiency can be caused by displacement by other gases, or by biological or chemical reactions (rusting, burning). Enrichment may be
CHECK IF APPLICABLE	atmosphere that contain more than the acceptable amount of oxygen (23.0%). Oxygen enrichment can cause an error in explosive meter readings	meter. Note: Some equipment incapable of detecting for oxygen enrichment.	atmosphere, increases rate of chemical reaction	caused by improper blanking of oxygen lines, leaking fuel gas, welding equipment, ventilation with oxygen instead of air
Hazard	Explanatory Notes	Method of Test	Effects of Hazard	Examples

Toxic Gases and Vapours CHECK IF APPLICABLE	Testing with appropriate detection equipment shall be undertaken to determine the presence of toxic gas(es) to create and maintain a safe environment.	Monitors - specific testers must be used for specific toxic gases, e.g. H2S monitoring. It may be necessary to disturb residue / sludge to allow for release of toxic gases / vapours.	Can cause euphoria / disorienting effect, drowsiness, headaches, weakness, injury, disability, death.	(CO) - colorless, Odourless, tasteless and very poisonous. Commonest source — internal combustion engines and decomposition of organic matter. 2. Carbon Dioxide (CO2) - Odourless. It is a heavy gas that can concentrate at lowest levels. It displaces oxygen and does not diffuse or mix readily with air. 3. Nitrogen Dioxide (NO2) - A pungent acrid odour. Product of gasoline and diesel engines. 4. Hydrogen Sulphide (H2S) - deadly gas commonly found in sewers, manure pits. Produced by decomposition of organic matter. Has a typical rotten egg odour, but higher amounts can kill the sense of smell.		
Fumes, Dusts, Mists, Fogs CHECK IF APPLICABLE	These hazards are usually recognized visually	Monitors - Testers specific for each fume, dust, mist, fog must be used	Explosion, disability, injury, burns, irritation, death poisoning	1. Fumes - From asphalt, welding, acid fumes from washing process 2. Dust - Grain dust, sand, blasting (silica) 3. Mist - Spray application		
Hazard	Explanatory notes	Method of test	Effects of Hazard	Examples		
Smoke CHECK IF APPLICABLE	Smoke is a combination of gases, vapours, fumes and dusts	Visual - Use appropriate detection (monitoring) equipment to determine presence of toxic agent(s)	All effects of gases, dusts, vapours, mists, fumes	Result of combustion, e.g. burning materials, smoke from welding		
Biological Agents CHECK IF APPLICABLE	Biological agents are found in a variety of locations. Extreme care should be taken when working near health care facilities or industrial processes using biological agents. Conscientious personal hygiene is essential.	Testing for presence of biological agents is very difficult. If type of agent(s) is known, then specific testing may be done.	Ill health, disease, Disorders, irritation, death.	Bacterial and viral infection.		
Safety Hazards:						

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Entry/Exit (Access / Egress) CHECK IF APPLICABLE	Openings that are small, narrow or otherwise difficult to negotiate can be a serious hazard. Where self-contained breathing apparatus is being used, openings must be of a size to allow worker with equipment properly worn to pass through. Access openings less than 700 mm (28") are not recommended	Visual identification of obstructions that could interfere with normal movement or emergency rescue.	Injury, disability, death	Exits at height that could cause falls. Constricted openings Angled openings Exits into traffic and machinery Exits at deep depths.
Ventilation Systems CHECK IF APPLICABLE	Lack of adequate ventilation may cause a build-up of contaminants etc. Ventilation systems can introduce hazards into the work area, e.g. carbon monoxide (CO) fumes.	Monitoring (anemometer, smoke tubes for air movement). Toxic monitors may also be necessary to ensure good quality air.	Explosion, disease, irritation, injury, disability, death	Improper ventilation can result in: 1. Oxygen levels variation 2. Buildup of toxic gases, vapours, dusts, mists, fumes (smoke). 3. Introduction of biologic agents, toxic gases, explosive gases
Machinery / Mechanical Equipment CHECK IF APPLICABLE	Make sure equipment is immobilized (de-energized) so that it will not be a hazard to workers	Visual and function testing	Injury, disability, death	Drive belts, augers, paddles, scrapers, agitators and pumps
Hazard	Explanatory notes	Method of test	Effects of Hazard	Examples
Piping / Distribution Systems CHECK IF APPLICABLE	Contents of pipes and supply lines if allowed to enter a confined space can create a life-threatening situation for workers.	Monitoring, visual	Chemical poisoning, drowning, burns, injury, disability, death	Steam lines, liquid distribution lines, feed mills and cement plants
Residual Chemicals / materials CHECK IF APPLICABLE	1. Corrosive and/or toxic chemicals remaining in a confined space. Special attention should be made to ensure that lines, valves and meters are totally drained and properly decontaminated 2. Material that may be adhered to surfaces /walls of enclosures may collapse. 3. Loose granular material	Monitoring Visual, Monitoring	Injury, disability, death, explosion Engulfment, suffocation, drowning, injury, disability, death	Storage tanks, digesters, liquid distribution systems, augers. 1. Silos, grain hoppers, fertilizer storage. 2. Sand, grains (e.g. Flax) 3. a) Rust build up in fuel storage tank b) sludge prevents release of Hydrogen sulphide (H2S)

Distribution Systems CHECK IF APPLICABLE	lines if allowed to enter a confined space can create a life-threatening situation for workers.		drowning, burns, injury, disability, death	distribution lines, feed mills and cement plants
Residual Chemicals / materials CHECK IF APPLICABLE	1. Corrosive and/or toxic chemicals remaining in a confined space. Special attention should be made to ensure that lines, valves and meters are totally drained and properly decontaminated 2. Material that may be adhered to surfaces /walls of enclosures may collapse. 3. Loose granular material that may engulf worker. 4. Material that may encapsulate / trap other toxic / explosive materials. 5. Flooding by liquids	Monitoring Visual, Monitoring	Injury, disability, death, explosion Engulfment, suffocation, drowning, injury, disability, death	Storage tanks, digesters, liquid distribution systems, augers. 1. Silos, grain hoppers, fertilizer storage. 2. Sand, grains (e.g. Flax) 3. a) Rust build up in fuel storage tank b) sludge prevents release of Hydrogen sulphide (H2S) 4. Flooding in underground facilities
Electrical CHECK IF APPLICABLE	Sources of unguarded electrical equipment - extreme caution must be taken when using conductive material around electrical surfaces (e.g. metal ladders, lifelines, steel bars, lines and cables, exposed terminals etc.)	Only by qualified personnel	Shock, burns, injury, disability, death	Underground electrical vaults and electrical distribution systems. Motor control centers.
Poor Visibility CHECK IF APPLICABLE	Caused by poor lighting obstructions, work process and procedure, fog/mist due to high humidity.	Visual	Injury, disability, death	Improper/ inadequate lighting, poor design of confined space, work process.

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Physical Obstacles CHECK IF APPLICABLE	This would include obstacles that impede movement and performance of work and rescue procedures.	Visual	Inability to remove injured worker, contusions, abrasions, fractures, disability, injury, death.	Cross bracing, baffle plates, piping.
Walking/ Working Surfaces CHECK IF APPLICABLE	Surfaces may be irregular in shape, sloped, angled, elevated, slippery, obstructed, etc., all of which are slip and fall hazards. Work areas may require toe boards to prevent objects from falling on workers below.	Visual	Injury, Disability, Death	1. Lift stations, aqua ducts, dams 2. Work areas that require toe boards to prevent objects from falling on workers below.
Temperature Extremes CHECK IF APPLICABLE	Temperature extremes, hot or cold, have definite health and safety hazards, as well as having a limiting effect on the ability of a worker to adequately perform tasks.	Thermometer, Heat Stress - Wet Bulb Globe Thermometer (WBGT)	1. Cold - Frost bite, loss of coordination, hypothermia, disability, death. 2. Heat – heat exhaustion, heat stress, disorientation, death.	1. Working in freezers, extreme cold climate conditions. 2. Working in boilers, super-heated areas (cooling towers), areas that have steam/ heat distribution pipes running through work areas.
Humidity CHECK IF APPLICABLE	High humidity can aggravate several conditions: 1. Visibility 2. Can cause all types of surfaces to become slippery. 3. Accelerate Heat loss. 4. Increase chill effect.	Hygrometer	Can cause slips, falls, physical discomfort, heat exhaustion, affect performance of tasks.	1. Boiler rooms 2. Digesters 3. Freezers
Hazard	Explanatory notes	Method of test	Effects of Hazard	Examples
Noise CHECK IF APPLICABLE	If sound levels exceed 80 DBA then work practices shall conform to requirements of current regulations respecting Hearing Conservation and Noise Control in Workplaces	Sound level meters	Distraction, stress, disorientation, communication problems, hearing loss.	Sources include operating equipment, such as jackhammers, pumps, grinders, other work procedures.
Human Factors				
Phobias CHECK IF APPLICABLE	Some workers are not suitable for work in confined spaces. Because of these factors, they can cause injuries to themselves or others.	Medical interview screening	Injury, disability, death	Claustrophobia Ear of heights
Mental & Physical Condition CHECK IF APPLICABLE	All workers must be mentally and physically capable of performing the work.	Visual, medical examination (pre- employment, annuals)	Injury, disability, death	1. Intoxication (alcohol, drug abuse) 2. Impairment (prescription medication)

Appendix C

	1.1
	Checklist for Confined Space Entry
Pre Entry	
	Have you identified and understand the work required to be performed and who authorized the work?
	Have you Identified hazards, mechanisms of injury through a hazard assessment? See
	Appendix
	Have you ensured the space is structurally safe for entry?
	Have you arranged for monitoring of the stability of the vessel, building, and soil?
	Have you developed a "plan" for the confined space?
	Have all supervisory or responsible party personnel been identified.
	Have you secured an entry permit?
	Have you established control of the perimeter (traffic and pedestrian control)?
	Have you assigned responsibility for a space entrance attendant (watch)?
	Have you arranged for log reading on the Confined Space Entry Permit Form?
	Have you arranged to secure all energy source hazards through a proper lock-out system (blanking lines, cutting power)?
	Have you developed an emergency Action Plan?
	Have you verified that all required personal protective equipment is readily available, in place,
	and being properly worn (harnesses (full body); retrieval system with back-up system; floatation devices; head protection; coveralls and chemical suits as may be required)?
	Have you made arrangements for intrinsically safe lighting and communications systems should the plan require it?
	Have you made arrangements to verify that entry conditions remain acceptable throughout the duration of the authorized entry?
Post-Entry	
	Have you arranged for all tools and equipment to be removed?
	Have you completed any required decontamination process if necessary?
	Have you taken steps to ensure that the confined space has been secured against future unauthorized entry?
	Have you accounted for all personnel?

Appendix D

Duties of the Attendant

- 1. Know and understand the confined space specific plan and rescue plan before taking your post.
- 2. Continuously maintain an accurate count of workers inside and outside of the confined space.
- 3. Remain outside the permit space during entry operations until relieved by another attendant.
- 4. Communicate with entrants, as often as necessary, to monitor entrant status and to alert entrants of the need to evacuate, when necessary.
- 5. Monitor activities inside and outside the confined space to determine if it is safe for entrants to remain in the confined space and orders of evacuation, when necessary.
- $\textbf{6.} \quad \text{Summon rescue and emergency services when assistance for emergency exists.}$
- 7. Take the following actions when unauthorized persons approach or enter a permit space while entry is underway.
 - a) Warn them to stay away, or exit immediately if they have entered.
 - b) Inform the authorized entrants and entry supervisor if unauthorized persons enter the permit space.
- 8. Perform non-entry rescues as specified by the rescue plan.
- 9. Ensure warning signs and permit is posted at the confined space entry point including any required traffic and pedestrian control signage.
- 10. Perform no other duties that might interfere with their primary duty to monitor and protect authorized entrants

Confined Space Entry Permit POST PERMIT AT JOB SITE UNTIL JOB IS COMPLETED. IN CASE OF EMERGENCY CALL 911									
Section A									
Person Issuing Permit:									
Permit Issued Date:			1	Time:					
Permit Expires Date			7	Time:					
Description of Location:		School Na	ame:						
Street Address:		Purpose o	of Entry:						
Supervisor(s) in Charge of Crew:		Work to b	pe Performed in Space:						
Standby Personnel/ Attendant:									
	ering Space:								
	Sectio	n B							
Pre Entry Checklist				Yes	No				
	surveyed and found free of hazardou	ıs atmosnh	eric hazards?	163	110				
	eric mazarus:								
Is the work area likely to remain									
Have all personnel in the designations and who to cor									
Do all areas of work and machin									
Will testing be done continuous									
Is all safety equipment (i.e. gas r									

NOTICE: IF ANY OF THE ABOVE QUESTIONS ARE ANSWERED "NO", DO NOT ENTER! CONTACT YOUR IMMEDIATE SUPERVISOR

Scan and send a copy of this permit to the OHS Coordinator don.doherty@btps.ca or send as a message to (780)842-8912

Prior to starting confined space work.

See reverse side of page to complete this form.

Section C																	
Did you (Personnel)											Yes	No					
Receive a pre-entry briefing on the plan to follow while in the confined space?																	
Rece	ive a pr	e-ent	ry bri	efing on ic	dentify	ing a	nd	using PP	E in conf	fined spac	e?						
Receive a pre-entry briefing on emergency rescue procedures?																	
Has/ Have the:																	
Testing equipment been calibrated properly?																	
Confined space/area been tested by a qualified person?																	
The confined space/area been assessed for;																	
- Atmospheric contaminants, including gases, vapours, fumes, dusts or mists?																	
- Oxygen level been tested to be between 19.5 – 23%?																	
-Test	ed for t	he ac	cumu	lation of f	lamm	able,	ıoɔ	mbustible	e or expl	osive age	nts?						
Pote	ntial ha	zards	of co	nductive h	neat tr	ansfe	er b	een eval	uated?								
Any I	Hot Wo	rk co	nsider	ations be	en ass	essed	l;										
- Hav	e Hot V	Vork	signs	been post	ed?												
- Has	a perm	nit be	en ap	proved an	d post	ted?											
- Has	the Ho	t Wo	rk pro	cedure be	en co	mmu	nic	ated?									
						Spa	ce	Preparat	ion Met	hods: Che	ck all t	hat apı	oly				I
Drair	ned		Inerte	d 🔲	Pu	rged] FI	ushed	St	eamed		Ventil	ated	Ва	rricaded	
Othe	r: (Desc	ribe	Metho	od)													
Safet	y Equip	men	t (Che	ck off app	oropri	ate e	qui	pment to	be use	d)							
	Cell P	hone					Н	arness					Retrieva	l/Life line			
	Gas N	lonito	or				Н	oisting E	quipmer	nt			Safety Harness and Lifelines for				
	Eye W	/ash					Ir	ıtrinsicall	y safe E	quipment	entry and exit						
	First a	id Kit	<u> </u>				N	on Spark	Tools				SCBA for	entry and	stand	by persor	าร
	Foot F	Prote	ction				St	tatically (Grounde	d			Ground Fault Circuit Line Interrupter				
	Prote	ctive	Clothi	ng				raffic Cor					Hand Protection				
	Radio							ripod/ wi					Hard Hat				
			/ Prot	ection				ersonal G		itor			Other:				
	пезри									nospheric	Tests						
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Appr	oved b	y :		Print Na	me:					Signat	ure						

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Prior to starting confined space work.